

IN THE CLAIMS

Please amend the claims as follows:

Claim 1 (Previously Presented): A radio terminal for use in a radio system for transferring data between the radio terminal and another radio terminal after establishing a logical connection between the radio terminal and the another radio terminal, the radio terminal comprising:

a logical channel set up unit configured to set up at least one first logical channel to transfer data packets containing at least one AV stream, to identify at least one second logical channel, the at least one second logical channel being set up by the another radio terminal to transfer the data packets, to set up at least one third logical channel to transfer a first set of control packets containing first control information regarding transfer of the data packets, and to identify at least one fourth logical channel to transfer a second set of control packets containing second control information regarding transfer of the data packets, the at least one fourth logical channel being set up by the another radio terminal;

a memory unit configured to store correspondence information including a correspondence between the at least one first logical channel and the at least one second logical channel for the at least one AV stream and a correspondence between the at least one third logical channel and the at least one fourth logical channel for the first and second control information; and

a packet transmission/reception unit configured to transfer the data packets and the first set and second set of control packets between the radio terminal and the another radio terminal by using the correspondence information.

Claim 2 (Previously Presented): The radio terminal of claim 1, wherein the at least one AV stream includes a single AV stream or one AV stream in which a plurality of single streams are multiplexed, the logical channel set up unit sets up one first logical channel with respect to the single AV stream or the one AV stream, identifies one second logical channel set up by the another radio terminal with respect to the single AV stream or the one AV stream, sets up one third logical channel with respect to the single AV stream or the one AV stream, and identifies one fourth logical channel set up by the another radio terminal with respect to the single AV stream or the one AV stream.

Claim 3 (Previously Presented): The radio terminal of claim 1, wherein the at least one AV stream includes a plurality of AV streams belonging to one AV application, and the logical channel set up unit sets up one first logical channel with respect to each one of the plurality of AV streams separately and identifies one second logical channel set up by the another radio terminal with respect to each one of the plurality of AV streams separately.

Claim 4 (Previously Presented): The radio terminal of claim 3, wherein the logical channel set up unit sets up one third logical channel with respect to the plurality of AV streams and identifies one fourth logical channel set up by the another radio terminal with respect to the plurality of AV streams.

Claim 5 (Previously Presented): The radio terminal of claim 3, wherein the logical channel set up unit sets up one third logical channel with respect to each one of the plurality of AV streams separately and identifies one fourth logical channel set up by the another radio terminal with respect to each one of the plurality of AV streams separately.

Claim 6 (Previously Presented): The radio terminal of claim 1, wherein the packet transmission/reception unit transmits the data packets by using the at least one second logical channel.

Claim 7 (Previously Presented): The radio terminal of claim 1, wherein the packet transmission/reception unit transmits the second set of control packets by using the at least one fourth logical channel.

Claim 8 (Previously Presented): The radio terminal of claim 1, wherein the packet transmission/reception unit receives the first set of control packets from the another radio terminal by using the at least one third logical channel.

Claim 9 (Previously Presented): The radio terminal of claim 1, wherein the logical channel set up unit transmits a first connection request containing a first channel identifier for identifying the at least one first logical channel set up by the radio terminal to the another radio terminal, and then receives a first connection response containing a second channel identifier for identifying the at least one second logical channel set up by the another radio terminal in response to the first connection request, and

the logical channel set up unit transmits a second connection request containing a third channel identifier for identifying the at least one third logical channel set up by the radio terminal to the another radio terminal, and then receives a second connection response containing a fourth channel identifier for identifying the at least one fourth logical channel set up by the another radio terminal in response to the second connection request.

Claim 10 (Previously Presented): The radio terminal of claim 9, wherein the logical channel set up unit identifies the at least one second logical channel based on the first connection response and the at least one fourth logical channel based on the second connection response, and stores the correspondence information on the memory unit according to the second logical channel and the fourth logical channel.

Claim 11 (Previously Presented): The radio terminal of claim 1, wherein the logical channel set up unit sets up the at least one first logical channel and the at least one third logical channel collectively, and then transmits a connection request containing first information for identifying the at least one first logical channel and the at least one third logical channel set up by the radio terminal to the another radio terminal.

Claim 12 (Previously Presented): The radio terminal of claim 11, wherein the logical channel set up unit receives a connection response containing second information for identifying the at least one second logical channel and the at least one fourth logical channel set up by the another radio terminal in response to the connection request.

Claim 13 (Previously Presented): The radio terminal of claim 12, wherein the logical channel set up unit stores the correspondence information on the memory unit according to the second information for identifying the at least one second logical channel and the at least one fourth logical channel set up at by the another radio terminal .

Claim 14 (Previously Presented): The radio terminal of claim 11, wherein the first information indicates a prescribed parameter value and a group of functions for generating a prescribed number of channel identifiers from the prescribed parameter value.

Claim 15 (Previously Presented): The radio terminal of claim 14, wherein the group of functions generates the prescribed number of channel identifiers in forms of consecutive channel numbers.

Claim 16 (Previously Presented): The radio terminal of claim 1, wherein the logical channel set up unit notifies information for identifying the at least one first logical channel and the at least one third logical channel to the another radio terminal and then sets up the at least one first logical channel and the at least one third logical channel collectively.

Claim 17 (Previously Presented): The radio terminal of claim 1, further comprising a notification unit configured to notify the correspondence information stored in the memory unit to the another radio terminal.

Claim 18 (Previously Presented): The radio terminal of claim 1, wherein the logical channel set up unit receives a first connection request containing a first channel identifier for identifying the at least one second logical channel set up by the another radio terminal from the another radio terminal and then transmits a first connection response containing a second channel identifier for identifying the at least one first logical channel set up at the radio terminal to the another radio terminal in response to the first connection request; and

the logical channel set up unit receives a second connection request containing a third channel identifier for identifying the at least one fourth logical channel set up by the another radio terminal from the another radio terminal, and then transmits a second connection response containing a fourth channel identifier for identifying the at least one third logical channel set up by the radio terminal to the another radio terminal in response to the second connection request.

Claim 19 (Previously Presented): The radio terminal of claim 18, wherein the logical channel set up unit stores the correspondence information on the memory unit according to the first, second, third, and fourth channel identifiers.

Claim 20 (Previously Presented): The radio terminal of claim 1, wherein the logical channel set up unit receives information for identifying the at least one second logical channel and the at least one fourth logical channel from the another radio terminal and then sets up the at least one first logical channel and the at least one third logical channel collectively.

Claim 21 (Previously Presented): The radio terminal of claim 1, further comprising a notification reception unit configured to receive a notification of second correspondence information obtained at the another radio terminal from the another radio terminal and to store the second correspondence information on the memory unit according to the notification.

Claim 22 (Previously Presented): The radio terminal of claim 1, wherein the radio system is Bluetooth and the at least first logical, at least second logical, at least third logical, and at least fourth logical channels are LSCAP channels.

Claim 23 (Previously Presented): The radio terminal of claim 1, wherein the at least one AV stream is given by data according to an RTP protocol and the first and second control information is given by data according to an RTCP protocol.

Claim 24 (Canceled).

Claim 25 (Canceled).